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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/537,535	06/03/2005	Eric Thomas McAdams	595552000100	4773
20872 7590 01/21/2010 MORRISON & FOERSTER LLP 425 MARKET STREET SAN EDANGISCO, CA 04105 2482			EXAMINER	
			DANEGA, RENEE A	
SAN FRANCISCO, CA 94105-2482			ART UNIT	PAPER NUMBER
			3736	
			MAIL DATE	DELIVERY MODE
			01/21/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/537,535	MCADAMS, ERIC THOMAS		
Office Action Summary	Examiner	Art Unit		
	Renee Danega	3736		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONI	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 18 No. This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for allowed closed in accordance with the practice under Example 2.	action is non-final. nce except for formal matters, pr			
Disposition of Claims				
4) ☐ Claim(s) 31,34-40,46-48,50,53-56,59 and 62-64 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 31, 34-40, 46-48, 50, 53-56, 59, 62-66 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration. <u>5</u> is/are rejected.	on.		
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	ate		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 31, 34-36, 39-40 and 46-48, 50, 54-56, 59 and 62-65 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bloom et al. (US 6963772) in view of Pearlman and Kenan et al. (US 6788966).
 - Regarding claims 31, 34-37, 39-40, 47-48, 50, 54-56, 59, 62, 64 Bloom teaches a system and method for monitoring changes in a skin wound over time comprising a wound dressing (40) including a two dimensional rectangular array of at least 25 test electrodes (38) for application to the surface of the wound (4), circuit means comprising switching device and analyzer for passing an electrical alternating current between each selected test electrode and a further electrode electrically coupled to the test electrodes for measuring an impedance of the tissue underlying each test electrode (78), and a display means (92) capable of presenting a visual map indicating the size and shape of the lesion. Bloom teaches the circuit comprising a first test electrode for providing a current source (4) integrated in the two-dimensional array of test electrodes, a second test

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electrode (10) for completing a current loop with the first electrode, and a third test electrode applied to tissue adjacent the first electrode (38's) (Figures 2D and 4) Bloom doesn't expressly teach presenting a visual map indicating the size and shape of the wound. However, Pearlman teaches a device that employs current through multiple electrodes on hydrogel at the skin surface in order to map a lesion (abstract) (Figures 7B, 14-15) column 9, lines 39-52) (column 4, lines 47-65). It would have been obvious in view of Pearlman to use impedance in order to create an image and display of abnormalities. Pearlman doesn't expressly teach the device to be used for skin lesions. However, Kanan teaches that skin impedance measurements can be used to identify skin lesions. It would have been obvious in view of Kanan to use the system of Bloom to monitor skin lesions and track changes.

- Regarding claim 48, Bloom teaches measuring impedance over a plurality of frequencies but doesn't expressly teach a range. However, Pearlman teaches measuring tissue anomalies by taking impedance measurements over a range of 1mHz to 100 kHz (column 21, lines 14-28). It would have been obvious in view of Pearlman to take impedance measurements in this range in Bloom to detect tissue anomalies.
- Regarding claims 46 and 53, Bloom teaches the test electrodes arranged on a flexible backing of insulating material with the electrodes covered with a conductive gel inherently creating high resistance between the

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electrodes relative to the resistance to the underlying tissue (column 11, lines 5-21).

- Regarding claims 63 and 65, Bloom teaches at least one reference electrode is a dedicated electrode on the flexible backing of insulating materially (Figure 2C).
- 3. Claim 38 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bloom as applied to claims 31 above, and further in view of Cudahy et al. (US 5184620).
 - Regarding claim 38,Bloom teaches the leads (4) to be disposed on the flexible backing of insulating material with the electrodes (38) (Figure 4), but doesn't expressly teach the leads to be covered with an insulating material. However, Cudahy teaches the electrodes to be insulated by the pad from other conductors (column 6, lines 17-20). It would have been obvious in view of Cudahy to provide insulation over the leads in Bloom as well as the electrodes to prevent conductance between the wires.

Response to Arguments

- 4. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.
- 5. Applicant's arguments filed regarding the use of the Bloom reference have been fully considered but they are not persuasive. Applicant states that the Bloom reference doesn't teach measuring changes in a skin wound; however, the changes in fluid are directly correlated to the surface wound as disclosed as well as sites of inflammation

(column 6, lines 47-53). Furthermore the reference points to the array to be a plurality of temperature or impedance sensors (column 8, lines 40-45). and claim 31 as written doesn't require the system to create a visual map from the measured electrical characteristics.

6. Kenan teaches a skin lesion impedance measuring system examining tissue at the skin surface and generating a map (column 6, lines 54-62) (column 7, lines 4-25). Therefore, Pearlman's impedance measuring system could be adapted to measure impedance at the surface for mapping rather than beneath it.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Renee Danega whose telephone number is (571)270-3639. The examiner can normally be reached on Monday through Thursday 8:30-5:00 eastern time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Max Hindenburg can be reached on (571) 272-4726. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RAD

/Max Hindenburg/ Supervisory Patent Examiner, Art Unit 3736